

AGREE UNIT PRICE (AUP) UNIT COST ANALYSIS
 INFRASTRUCTURE SERVICES DIVISION--STREET LIGHTING
 STATE PROJECT I.D.# 1693-31-79
 NORTH HOLTON STREET
 E. RESERVOIR AVE. TO E. CENTER ST.

SUMMARY COST ESTIMATE--STREET LIGHTING

STATE ITEM	Description	Quantity	Material Cost	Quantity * Material Cost	Labor Cost	Quantity * Labor Cost	Equipment Services Cost	Quantity * Equip. Services Cost	Total Cost
90005H	Existing lighting unit A26 style concrete pole, removal of 6' bracket, A26 clamp, and 250 watt/240 volt high pressure, sodium cobra style fixture. The installation of A26 style lantern clamp, 250 watt/240 volt high pressure sodium, Milwaukee Lantern bracket and Milwaukee Lantern with 250 watt high pressure sodium lamp.	44	\$1,064.56	\$46,840.64	\$244.10	\$10,740.40	\$14.13	\$621.72	\$58,202.76
90005K	Existing lighting unit A31 style concrete pole, removal of 6' bracket, A31 clamp, and 250 watt/240 volt high pressure, sodium cobra style fixture. The installation of A31 style lantern clamp, 250 watt/240 volt high pressure sodium, Milwaukee Lantern bracket and Milwaukee Lantern with 250 watt high pressure sodium lamp.	2	\$1,061.19	\$2,122.38	\$244.10	\$488.20	\$14.13	\$28.26	\$2,638.84
90005CK	Remove existing multiple mercury vapor cobra style fixture from 6' bracket. Install 250W/240V high pressure sodium cobra style fixture with 250W high pressure sodium lamp.	1	\$144.30	\$144.30	\$56.33	\$56.33	\$3.92	\$3.92	\$204.55
90005CV	Install A26 concrete pole, A26 clamp, 6' bracket and 250w/240v cobra style fixture with 250 watt high pressure sodium lamp. (includes riser cable)	11	\$810.43	\$8,914.73	\$370.31	\$4,073.41	\$21.19	\$233.09	\$13,221.23
90005CZ	Install A31 concrete pole, A31 clamp, 6' bracket and 250w/240v cobra style fixture with 250 watt high pressure sodium lamp. (includes riser cable)	2	\$1,027.79	\$2,055.58	\$370.31	\$740.62	\$21.19	\$42.38	\$2,838.58
90005DK	Install A26 concrete pole, A26 clamp, 250w/240v Milwaukee Lantern bracket, and Milwaukee Lantern with 250 watt high pressure sodium lamp. (includes riser cable)	1	\$1,650.84	\$1,650.84	\$370.31	\$370.31	\$21.19	\$21.19	\$2,042.34
90005EA	Install H17 concrete pole and 70w/240v Milwaukee Harp fixture with 70 watt high pressure sodium lamp. (includes riser cable)	40	\$1,196.83	\$47,873.20	\$370.31	\$14,812.40	\$21.19	\$847.60	\$63,533.20
90005EG	Install wood pole	24	\$1.82	\$2,466.10	\$201.32	\$4,831.68	\$12.29	\$294.96	\$5,126.64
90030A	Install 3#2/1#8 LTP underground cable	1355	\$1.49	\$4,805.25	\$1.74	\$5,611.50	\$0.03	\$40.65	\$4,864.45
90030B	Install 3#4/1#8 LTP underground cable	3225	\$0.95	\$2,655.25	\$1.74	\$4,863.30	\$0.03	\$96.75	\$10,513.50
90030C	Install 3#6/1#8 LTP underground cable	2795	\$0.65	\$1,875.25	\$1.74	\$5,019.90	\$0.03	\$83.85	\$7,602.40
90030D	Install 3#8/1#8 LTP underground cable	2,885	\$0.33	\$482.13	\$0.75	\$1,095.75	\$0.05	\$69.30	\$1,718.64
90030E	Install 2#2/1#4 Aluminum Triplex wire overhead wire	1461	\$0.44	\$609.84	\$0.75	\$1,039.50	\$0.05	\$174.10	\$3,586.46
90030F	Install 2#4/1#6 Aluminum Triplex wire overhead wire	1386	\$0.23	\$800.86	\$0.75	\$2,611.50	\$0.05	\$159.00	\$1,379.55
90030M	Install Metal Pedestal Cabinet	3482	\$0.58	\$518.70	\$56.33	\$844.95	\$1.06	\$26.15	\$654.80
90005EM	Install Primary or Secondary risers	5	\$50.62	\$253.10	\$75.11	\$375.55	\$5.23	\$213.60	\$7,620.00
90030R	saw cut, break out, and restoration of concrete	240			\$30.86	\$7,406.40	\$0.89	\$689.72	\$12,854.85
90030EO	Remove wood, concrete, steel, or aluminum pole complete	43			\$282.91	\$12,165.13	\$16.04	\$20.92	\$321.36
90030ER	Remove primary or secondary riser	4			\$75.11	\$300.44	\$5.23	\$316.45	\$5,063.20
90030S	Remove overhead line wires	6329			\$0.75	\$4,746.75	\$0.05	\$1,507.00	\$24,728.50
90030T	Install 2" PVC (hoisting)	6850	\$0.71	\$4,863.50	\$2.68	\$18,358.00	\$0.22		

TOTAL COST MATERIAL	\$128,931.65
TOTAL COST LABOR	\$102,909.72
TOTAL COST EQUIPMENT SERVICES	\$5,507.11
OVERALL TOTAL COST	\$237,348.48

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ESTIMATED COST OF 2007 STREETSCAPING PROGRAM

APPROVED BY:

 ROBERT W. BRYSON
 TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
 TRAFFIC AND LIGHTING DESIGN UNIT

AGREED UNIT PRICE (AUP) UNIT COST ANALYSIS
 INFRASTRUCTURE SERVICES DIVISION - TRANSPORTATION
 DEPARTMENT OF PUBLIC WORKS - CITY OF MILWAUKEE
 STATE PROJECT I.D.# 1693-31-09
 CONGESTION MITIGATION AIR QUALITY PROGRAM
 NORTH HOLTON STREET
 E.RESERVOIR AVE. TO E. CENTER ST.

SUMMARY COST ESTIMATE - TRAFFIC SIGNALS

ITEM	DESCRIPTION	UNIT	QUANTITY	Material	QUANTITY x MATERIAL	Equipment	QUANTITY x EQUIPMENT	Labor	QUANTITY x LABOR	Unit Cost	TOTAL COST
71066LC	DW-W COMBO 12" SIG. HOUS. W/ LED MODULE	EACH	24	\$234.80	\$5,635.20	\$7.08	\$169.92	\$197.96	\$4,751.04	\$439.84	\$10,556.16
71067L	COUNTDOWN PED 12" SIG. HOUS.	EACH	24	\$455.36	\$10,928.64	\$7.07	\$169.68	\$197.96	\$4,751.04	\$660.39	\$15,849.36
71071L	38 SIG. HOUS. W/ LED MODULES	EACH	1	\$327.77	\$327.77	\$4.72	\$4.72	\$118.77	\$118.77	\$451.26	\$451.26
71125	PUSH BUTTON MUSHROOM HEAD (ADA 2")	EACH	4	\$36.47	\$145.88	\$4.71	\$18.84	\$79.18	\$316.72	\$120.36	\$481.44
71156	LEAD IN CABLE (PROBE)	FOOT	825	\$0.08	\$66.00	\$0.07	\$57.75	\$1.77	\$1,460.25	\$1.92	\$1,584.00
71170	9#14 LTP	FOOT	180	\$0.29	\$52.20	\$0.07	\$12.60	\$1.77	\$318.60	\$2.13	\$383.40
71171	12#14 LTP	FOOT	425	\$0.39	\$165.75	\$0.07	\$29.75	\$1.77	\$752.25	\$2.23	\$947.75
71172	17#14 LTP	FOOT	520	\$0.54	\$280.80	\$0.07	\$36.40	\$1.77	\$920.40	\$2.38	\$1,237.60
71173	20#14 LTP	FOOT	1390	\$0.64	\$889.60	\$0.07	\$97.30	\$1.77	\$2,460.30	\$2.48	\$3,447.20
90030B	INSTALL 3#4/1#8 LTP UNDERGROUND CABLE	LF	450	\$1.49	\$670.50	\$0.03	\$13.50	\$1.74	\$783.00	\$3.26	\$1,467.00
90030Q	INSTALL 2.5" PVC CONDUIT (TRENCH)	LF	450	\$0.45	\$202.50	\$0.21	\$94.50	\$5.74	\$2,583.00	\$6.40	\$2,880.00
71721	38 Sig. Hous. Relocated	EACH	2	\$0.00	\$0.00	\$11.48	\$22.96	\$158.37	\$316.74	\$169.85	\$339.70
71827	SS 13' Relocated	EACH	1	\$0.00	\$0.00	\$17.22	\$17.22	\$237.55	\$237.55	\$254.78	\$254.77

TOTAL COST MATERIAL \$19,364.84

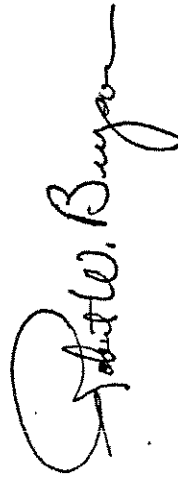
TOTAL COST EQUIP \$745.14

TOTAL COST LABOR \$19,769.66

OVERALL TOTAL COST \$39,879.64

ESTIMATED COST OF 2007 PAVING PROGRAM

APPROVED BY:



ROBERT W. BRYSON
 TRAFFIC & LIGHTING ENGINEER V

TRANSPORTATION SECTION
 TRAFFIC & LIGHTING DESIGN UNIT
 JOSEPH A. BONDOWSKI
 January 2, 2007

Revised:

AGREED UNIT PRICE (AUP) UNIT COST ANALYSIS
 INFRASTRUCTURE SERVICES DIVISION
 DEPARTMENT OF PUBLIC WORKS - CITY OF MILWAUKEE
 STATE PROJECT I.D.#1693-31-79
 2007 SURFACE TRANSPORTATION PROGRAM
 N. HOLTON ST. - E. RESERVOIR AV. TO E. CENTER ST.

TRAFFIC SIGNS

COST ESTIMATE

ITEM	DESCRIPTION	QUANTITY	MATERIAL	QUANTITY X MATERIAL	EQUIPMENT	QUANTITY X EQUIPMENT	LABOR	QUANTITY X LABOR	UNIT COST	TOTAL COST
73000	30 X 30 STOP	14	40.51	567.14	0.34	4.76	11.74	166.00	\$52.59	\$767.42
73022	18X24 ONE WAY (LA)	1	19.75	19.75	0.34	0.34	11.74	11.86	\$31.83	\$33.23
73024	18X24 ONE WAY (RA)	1	19.75	19.75	0.34	0.34	11.74	11.86	\$31.83	\$33.23
73034	12X18 PARKING-SINGLE MESSAGE	2	9.90	19.80	0.34	0.68	11.74	23.71	\$21.98	\$45.96
73036	18X24 PARKING-DOUBLE MESSAGE	1	19.74	19.74	0.34	0.34	27.92	28.20	\$48.00	\$50.21
73056	30X30 SCHOOL	2	45.51	91.02	0.34	0.68	11.74	23.71	\$57.59	\$120.03
73082	12x36 HAZARD MARKER (RIGHT MOUNT)	18	16.90	304.20	0.34	6.12	11.74	213.43	\$28.98	\$544.70
73140	15X21 PUSH BUTTON FOR WALK SIGNAL	1	5.68	5.68	0.34	0.34	11.74	11.86	\$17.76	\$18.60
73159	30X36 ONLY (RA)	1	49.00	49.00	0.34	0.34	11.74	11.86	\$61.08	\$63.65
73294	3' RSP SOCKET	4	19.83	79.32	0.68	2.72	15.39	62.18	\$35.92	\$149.99
73295	SOC. (CONC. INST.)	26	9.51	247.26	1.02	26.52	23.09	606.34	\$33.62	\$915.32
73296	2" X 9'6" PIPE	28	43.14	1207.92	0.14	3.92	3.08	87.10	\$46.36	\$1,350.90
73298	2' X 11'-0" PIPE	2	48.08	96.16	0.14	0.28	3.08	6.22	\$51.30	\$106.77
73310	MOUNTING HARDWARE CP/SS/AP	4	0.00	0.00	0.14	0.56	3.07	12.40	\$3.21	\$13.48
73311	MOUNTING HARDWARE PS	39	0.96	37.44	0.14	5.46	3.07	120.93	\$4.17	\$170.38
73327	6X8 PUSH BUTTON FOR WALK SIGNAL	1	0.22	0.22	0.34	0.34	11.74	11.86	\$12.30	\$12.92
73338	12X24 DIAGONAL DOWN	2	16.20	32.40	0.34	0.68	11.74	23.71	\$28.28	\$59.06

TOTAL COST MATERIAL
 \$2,796.80

TOTAL COST EQUIPMENT
 \$54.42

TOTAL COST LABOR
 \$1,433.23

OVERALL TOTAL COST
 \$4,455.85

ESTIMATED COST OF 2007 PAVING PROGRAM

APPROVED BY:

 ROBERT W. BRYSON

* Quantity X Labor includes an additional 1% of the labor cost for small tools
 ** Total Cost includes an additional 4% for administrative support

TRANSPORTATION SECTION
 TRAFFIC & LIGHTING DESIGN UNIT
 DALE A. DIETZE
 January 25, 2006